



FIGURE 4.—Difference curves of the 100-mb mean temperatures for the autumn (March-May).

Farkas, E., "Long-Period Fluctuations of Upper Level Winds and Temperatures over the South Pacific," *Proceedings of the Symposium on Tropical Meteorology, Rotorua, New Zealand, November 1963*, New Zealand Meteorological Service, Wellington, 1964, pp. 180-189.

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Reply

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We wish to thank Farkas for pointing out the similarity of our differencing technique to the "difference periodogram" of Brooks. We admit to not being aware of either the Brooks reference or his "difference periodogram." However, we do not believe that Farkas has demonstrated the inadequacy of our technique by means of her analysis. In fact, her figures 2 and 3 appear to support our findings. In both figures, there is evidence for an out-of-phase relation between tropical and temperate latitudes as well as some evidence for a poleward progression of phase in temperate and polar latitudes. Furthermore, the trend is much clearer in figure 3 (spring) than in figure 4 (fall), also in agreement with our findings. Farkas may be quite correct, however, in emphasizing the uncertainty in the differencing technique when the data record is of the same length as the periodicity sought, and this will be considered in future analyses.

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